

34070

S/137/62/000/002/038/1
A006/A101

15.2240

AUTHORS: Koval'skiy, A. Ye., Vrzheschch, Ye. Ya.

TITLE: The effect of the temperature of manufacturing single-phase tantalum tungsten carbide on the incubation period of decomposition.

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 28, abstract 2G226 ("Sb. tr. Vses. n.-i. in-t tverdykh splavov", 1960, no. 2, 129-134)

TEXT: The methods of X-ray and metallographical analysis were used to investigate the effect of temperature of preparing a single-phase solid solution of TaC-WC on the duration of the incubation period and the dispersity of phases after decomposition. The specimens were prepared by two stages: a) roasting at 1,800°C of a WC and Ta₂O₅ mixture with carbon black; b) repeated pressing and sintering of the carbide powders obtained at temperatures required to attain complete solubility, and above. It is shown that an increase of the preheating temperature prior to annealing extends considerably the incubation period. For instance, a specimen roasted at 1,850°C (1.5 hours) decomposed after 1 hour annealing at 1,400°C, but a specimen roasted at 2,350°C did not decompose after 48 hour annealing at 1,600°C. The dispersity of carbide phases is the higher

Card 1/2

S/137/62/000/002/038/144
A006/A101

The effect of the temperature ...

the greater the oversaturation of the solid solution. Decomposition of the composite TaC-WC carbide up to equilibrium concentrate occurs in a jump after the incubation period. This is confirmed by the absence of partially decomposed crystals. In individual cases some crystals were observed, where the decomposition had not as yet started, together with cases of complete decomposition.

I. Brokhin

[Abstracter's note: Complete translation]

Card 2/2

S/736/60/000/002/005/007

AUTHORS: Koval'skiy, A. Ye., Vrzhashch, Ye. Ya.

TITLE: Effect of the temperature of preparation of single-phase TaW carbide on the incubation period of decomposition.

SOURCE: Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov. Sbornik trudov. no.2. Moscow, 1960. Tverdyye splavy. pp. 129-134.

TEXT: The paper reports an investigation of the effect of the temperature of preparation of a single-phase solution of WC in TaC on the duration of the incubation period and of the dispersion of the phases after decomposition. It supplements the work of I. I. Kitaygorodskiy and N. M. Pavlushkin (Steklo i keramika, no. 11, 1955) on the solubility of WC in TaC which showed that the decomposition occurs with a jump after an incubation period and is accompanied by a breaking down of the grains of the solid solution. Specimens were made of a mixture of Ta and W oxides (in varying proportions) and lamp black which, in a first stage, were calcined at 1800°C. Second-stage pressing and sintering at temperatures at and significantly above the solid-solution equilibrium temperature produced specimens suitable for X-ray and microscopic inspection; the specimens were not ground or polished in order to avoid decomposition due to deformation. Details of the preparation and heat-treatment process are tabulated; they show that an increase in the sintering temperature of the single-phase solution prior to roasting lengthens the incubation period.

Card 1/2

ACCESSION NR: AP4023414

8/0048/64/028/003/0801/0606

AUTHOR: Vrzhetsiono, A.

TITLE: Magnetocrystal anisotropy of the intermetallic compound Mn_5Ge_3 /Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May-5 June 1963/

SOURCE: AN SSSR. Izvestiya. Soriya fizicheskaya, v.23, no.3, 1964, 601-606

TOPIC TAGS: magnetic anisotropy, manganese magnetic moment, paramagnetic anisotropy, persistence, manganese germanium compound

ABSTRACT: The magnetic anisotropy of Mn_5Ge_3 (hexagonal type $D8_8$ structure) was measured. A 5 mm diameter spherical "pseudo-single crystal" was employed, i.e., a polycrystalline material consisting of large crystals with nearly parallel hexagonal axes. Magnetization curves were obtained in the directions of greatest and least susceptibility by a ballistic method at temperatures from 90 to 360°K and magnetizing fields up to 11 350 Oe. The curves of magnetization versus temperature at a fixed magnetizing field taken in the direction of minimum susceptibility for fields less than 9000 Oe showed a slight rise of magnetization with temperature to a maximum near the Curie point. This rise is ascribed to the fact that magnetization in

Card ^{1/2}

ACCESSION NR: AP4023414

this direction is effected by rotation against the anisotropy forces, and the anisotropy decreases with increasing temperature. The magnetoocrystal anisotropy energy was calculated from the area between the magnetization curves taken in the directions of maximum and minimum susceptibility. This decreased monotonically from a value (extrapolated) of 3.74×10^6 erg/cm³ at 0°K to zero at 313°K. The Curie point is 300°K; the anisotropy thus persists into the paramagnetic region. The saturation magnetization extrapolated to 0°K was 140 emu/g. From this a value of 2.47 Bohr magneton was calculated for the mean magnetic moment of Mn. This is in agreement with measurements of K.Kanematsu (J.Phys.Soc.Japan 17,85,1962). "The author expresses his gratitude to S.S.Szczeniowski for his valuable discussions and for reading the manuscript." Orig.art.has: 2 formulas, 3 figures and 1 table.

ASSOCIATION: Fizicheskiy institut Pol'skoy Akademii nauk (Physics Institute, Polish Academy of Sciences)

SUBMITTED: OO

DATE ACQ: 10Apr64

ENCL: OO

SUB CODE: PH

NR REF SOV: 002

OTHER: 013

Card 2/2

where a_0 and C are constants.

The curve of the temperature function of magnetocrystal anisotropy (A. Vrzhetisano, *Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya*, Vol 28, 1964, page 601), experimentally determined, verifies the correctness of the above formulas.

Card 1/2

L 37677-65
ACCESSION NR: AP5010777

ASSOCIATION: Fizicheskiy institut Pol'skov AN. Poznan' (Institut of Physics.

FOI (b) (7) (D)

SUBMITTED: 23 Jun 64

ENCL: 00

SUB CODE: TD, IC

NR REF SOV: 002

OTHER: 000

JPRS

Card 2/2 *ko*

SKALICHKOVA, O.; VRZHEZINKOVA, V.; KRZHEMENOVA, I.; REYZENAUER, R.

Psyche and psychopathological signs in endemic degeneration. Zhur.
nevr.i psikh. 62 no.7:1053-1057 '62. (MIRA 15:9)

1. Psikhiatricheskaya klinika (zav. - prof. V.Vondrachek) Nauchno-
issledovatel'skogo endokrinologicheskogo instituta (dir. - dotsent
K.Shilink), Praga. (CZECHOSLOVAKIA--CRETINISM)

S/137/62/000/002/074/14
A006/A101

AUTHOR: Vrzhashch, E. I.

TITLE: Investigating the effect of tempering temperature on the properties of a cyanided layer in "20" grade steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 34 - 35, abstract 2I207 ("Izv. Irkutskogo s.-kh. in-ta", 1960, no. 16, 105 - 113)

TEXT: The author investigated the effect of N on tempering resistance of a cyanided grade "20" steel layer, containing in %: C 0.25; Si 0.35; Mn 0.49; P 0.025; S 0.047. The nature of changes which occur in a quench-hardened cyanided layer, subjected to tempering at 100 - 500°C, is similar to changes observed in quenched high-carbon steels tempered at these temperatures. N raises the resistance of a cyanided layer against tempering. There are 14 references. ✓

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 1/1

KOVAL'SKIY, A.Ye.; VRZHESHCH, Ye.Ye.

Effect of the temperature of preparing a one-phase tantalum-
tungsten carbide on the incubation period of decomposition.
Sbor. trud. VNIITS no.2:129-134 '60. (MIRA 15:2)
(Tantalum carbide)
(Heat of formation)

L 40086-66 EWT(m)/EWP(t)/ETI IJP(c) WH/JW/JO

ACC NR: AP6025942

SOURCE CODE: UR/0226/66/000/007/0076/0083

AUTHOR: Chaporova, I. N.; Rybal'chenko, R. V.; Vrzheshch, Ye, Ya.ORG: All-Union Scientific Research Institute of Hard Alloys (Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov)TITLE: Synthesis and properties of $(\text{Ti}, \text{W}, \text{Cr})\text{C}$ carbides ₂₇

SOURCE: Poroshkovaya metallurgiya, no. 7, 1966, 76-83

TOPIC TAGS: ~~sintered carbide~~ ^{sintering} titanium carbide, tungsten carbide, chromium carbide, ~~carbide structure~~, ~~carbide property~~

ABSTRACT: The effect of adding up to 25% Cr_3C_2 on the properties of $(\text{Ti}, \text{W})\text{C}$ carbide with a constant TiC:WC ratio of 35:65, was investigated. The initial $(\text{Ti}, \text{W}, \text{Cr})\text{C}$ carbides were synthesized from $\text{TiO}_2 + \text{WC} + \text{Cr}_2\text{O}_3 + \text{C}$ powders in hydrogen at temperatures from 2573 K for pure $\text{TiO}_2 + \text{WC}$ to 1923 K for carbide with 25% Cr_3C_2 . The carbide powders were compacted and sintered in vacuum at 2073—2123 K. The porosity of sintered compacts did not exceed 0.2%. An x-ray diffraction analysis revealed that all the alloys have a solid-solution structure with an fcc lattice. With increasing Cr_3C_2 content oxidation resistance sharply increased. The respective weight loss of $(\text{TiW})\text{C}$ carbide and carbide containing 20% Cr_3C_2 was 72 and 3.6% of the original weight in 10 hr at 1270 K. At 20% Cr_3C_2 the resistivity increased by 60%, Young's modulus dropped from 37 to 33 $\text{n/m}^2 \cdot 10^{10}$. With increasing temperature from

Card 1/2

L 40056-66

ACC NR: AP6025942

290 to 1070 K hardness decreased from about 2500 to 750—800 $\text{n/m}^2 \cdot 10^7$ regardless of composition. The coefficient of thermal expansion, bend strength, and contact angle in wetting with Co in vacuum showed little or no change. Orig. art. has: 7 figures and 3 tables. 27 [WW]

SUB CODE: 11/ SUBM DATE: 28Oct65/ ORIG REF: 003/ OTH REF: 002/ ATD PRESS: 5053

Card

2/2 *gh*

VRZHESHTYAL, Yevy KOTRLY, S.

Adapter with a photomultiplier for the UM-2 monochromator. Zav.lab. 27
no.1:116-117 '61. (MIRA 14:3)

(Monochromators)

VRZHESKIY, V. Ch.

VRZHESKIY, V. Ch. (Tikhvin, Leningradskoy obl.)

Comments on the scientific work of general practitioners in
traumatology. Ortop. travm. i protez. no. 4: 69-75 J1-Ag '55.

(GENERAL PRACTICE,

(MLRA 8:10)

relation to traumatol.)

(WOUNDS AND INJURIES,

GP in traumatol.)

ACCESSION NR: AP501090

TR/0286/65/000/007/0085/0085

AUTHORS: Antropov, I. I.; Vrachenskaya, I. S.; Pogrebova, I. S.; Dremova, G. I.;
Suklyadina, I. V.; Golovinskiy, Yu. I.

SUBJECT: A method for preventing wear and corrosion by acids. 1985
No. 10

SOURCE: Zhurnal khimicheskoy fiziki, 1985, 61, No. 10, p. 2105, 1

NOTE: 1. Corrosion prevention, acid etching, and etching of alloys.
Abstracts: 10000

1. The authors describe a method for preventing wear and corrosion of alloys in acidic environments. The method involves the use of a special solution containing a mixture of organic and inorganic compounds. The solution is applied to the surface of the alloy, forming a protective film. The film is resistant to acid attack and reduces the rate of corrosion. The authors also describe the method for etching alloys, which involves the use of a similar solution. The etching process is used to create a specific surface texture on the alloy, which improves its mechanical properties. The authors provide experimental data showing the effectiveness of the method for preventing wear and corrosion of various alloys in acidic environments.

ACCESS: 100 125010876

SUBJECT: 100 125010876

ENCL: 100

SUB JORD: 100

RE: 100 125010876

OTHER: 100

Card 2/2

VRZHOSEK, G. G. [Vrosek, G. G.]; KUDRA, O. K.

Overvoltage of hydrogen evolution on mercury in a ripple current.
Ukr. khim. zhur. 28 no.5:604-610 '62. (MIRA 15:10)

1. Kiyevskiy politekhnicheskii institut.

(Hydrogen) (Overvoltage) (Electrodes, Mercury)

VRZHOSEK, G.G.; KUDRA, O.K.

Effect of temperature on polarization in the presence of pulsating
current. Ukr. khim. zhur. 26 no.5:562-564 '60. (MIRA 13:11)

1. Kiyevskiy ordena Lenina politekhnicheskoy institut.
(Polarization (Electricity))

VRZHOSEK, G.G.

KUDRA, O.K., prof., doktor khim. nauk; VRZHOSEK, G.G., aspirant

Part 1: Influence of the intermittent current on the decomposition
potential of hydrochloric acid. Izv. KPI 20:52-65 '57. (MIRA 11:3)
(hydrochloric acid) (Electrochemical analysis)

VRZHOSEK, G.G.

KUDRA, O.K., prof., doktor khim. nauk; VRZHOSEK, G.G., aspirant

Part 2: Influence of ripole current on some anode processes.

Izv. KPI 20:66-75 '57.

(MIRA 11:3)

(Hydrochloric acid) (Polarography)

V/RZ HOSEK, G. G.

KUDRA, O.K., prof., doktor khim. nauk; VRZHOSEK, G.G., aspirant

Part 3: Influence of the anion nature on the drop in decomposition
potential while using ripple current. Izv. KPI 20:76-89 '57.
(Acids, Organic) (polarography) (MIRA 11:3)

VRZHOSEK, G. G.

VRZHOSEK, G. G.: "Investigation of electrode processes with a pulsating current". Kiev, 1955. Min Higher Education Ukrainian SSR. Kiev Order of Lenin Polytechnic Inst, Chair of Physical and Colloid Chemistry. (Dissertation for the degree of Candidate of Chemical Sciences)

SO: Knizhnyaya Letopis' No. 51, 10 December 1955

VRZHOSEK, G.G.; KUDRA, O.K.

Effect of some admixtures on polarization by a ripple current. Izv.
vys.ucheb.zav.; khim.i khim.tekh. 3 no.6:1008-1010 '60.

(MIRA 14:4)

1. Kiyevskiy politekhnicheskiy institut, kafedra fizicheskoy i kolloidnoy
khimii.

(Polarization (Electricity)) (Electrolysis)

BARMASHENKO, I.B., kand.tekhn.nauk; IGNATENKO, O.Kh. [Ihnatenko, O.Kh.], kand.
tekhn.nauk; VRZHOSK, G.G. [Vrzhosek, H.H.], kand.tekhn.nauk;
LAZEBNIK, V.V.

Oxidation of aluminum spray coating on porcelain and its imitation
gold finishing. Leh.prom. no.3:34-40 Je - Ag '62. (MIRA 16:2)

1. Kiyevskiy politekhnicheskiy institut (for Barmashenko, Ignatenko,
Vrzhosek). 2. Ukrainskiy nauchno-issledovatel'skiy institut stekol'noy
i farforo-fayansovoy promyshlennosti (for Lazebnik).
(Aluminum) (Oxidation) (China painting)

DOROFYEVA, N.G.; VRZHOSEK, N.I.; KUDRA, O.K.

Electrochemical properties of hydrogen bromide solutions in
isopentyl alcohol. Ukr. khim. zhur. 29 no.2:156-161 '63.
(MIRA 16:6)

1. Kiyevskiy politekhnicheskii institut.
(Hydrobromic acid) (Isopentyl alcohol)
(Electrochemistry)

VECHNEV, S. N.

S. I. KARAKIN, *Isosolium Prom*, 1934, 3, n. 9-10, 35-41;
n. 11, 22-27

VSCHIVTZEVA, M. M.

I. F. CHISTOV, Lesokhim Prom, 1935, 4, n. 8, 18-20

30629
3/058/61/000/008/040/044
A058/A101

9,9100

AUTHORS: Vsekhsvyatskaya, I. S., Tsedilina, Ye. Ye.

TITLE: The correlation function of the amplitude of signals scattered from an absolutely rough screen

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1961, 331, abstract 8Zh419
("Tr. In-ta zemn. magn., ionosfery i rasprostr. radiovoln. AS USSR",
no. 17(27), 1960, 287-291)

TEXT: The correlation function of the amplitude of signals reflected from the ionosphere is calculated taking into account random as well as oriented motions in the ionosphere. It is shown that for an absolutely rough ionosphere the correlation function is the product of the autocorrelative functions that are obtained in the two limiting cases: when only drift or purely random motion of scattering centers is occurring.

[Abstracter's note: Complete translation]

Card 1/1

VSEKESVYATSKAYA, I.S.

Calculation of the correlation coefficient in the presence of a regularly reflected wave and a spectrum of a chaotic waves. Geomag.i aer. 1 no.2:213-222 Mr-Apr '61. (MIRA 14:7)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR.

(Ionospheric radio wave propagation)

VSEKHSVYATSKAYA, I.S.

Use of characteristic functions in the processing of drift
recordings. Geomag. i aer. 3 no.4:775-777 J1-Ag '63.
(MIRA 16:11)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya
radiovoln AN SSSR.

BAYRACHENKO, I.V.; VSEKHSVIATSKAYA, I.S.; MIZERNYUK, A.T.; SHKURDODA, V.F.

Some results of radar observations of meteor activity. Mezhdunar.
geofiz. god [Kiev] no.2:75-78 '60, (MIRA 14:1)

1. Kiev State University.
(Meteors)

(Radar in astronomy)

S/203/62/002/004/010/018
I046/I246

6.9200
AUTHOR: Vsekhsvyatskaya, I.S.

TITLE: The statistical properties of the envelope of a signal
and the Poisson noise

PERIODICAL: Geomagnetizm i aeronomiya, v. 2, no.4, 1962, 712-719

TEXT: The phenomenological model of the Poisson noise, a superposition of independent random elementary pulses, is used in calculating (a) the frequency function for the envelope of the noise and of a sinusoidal signal; (b) the first and second order moments for cases with and without sinusoidal signals; and (c) the general correlation characteristics of any order. All these quantities depend on the parameter ν/α that characterizes the number of pulses per 1 cps of the transmission band. The characteristic properties of the Poisson noise are observed only for finite ν/α values, whereas when $\nu/\alpha \rightarrow \infty$ all the properties pass naturally into the analogous expressions for the Gaussian noise. There is 1 figure.

Card 1/2

S/203/62/002/004/010/018
I046/I246

The statistical properties of...

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostra-
neniya radiovoln AN SSSR (Institute of Terrestrial
Magnetism, the Ionosphere, and Propagation of Radio
Waves, AS USSR) ✓B

SUBMITTED: April 19, 1962

Card 2/2

VSEKHSVIATSKAYA, I.S.

Calculation of the phase correlation coefficient of random processes. Geomag. i aer. 2 no.1:86-90 Ja-F '62. (MIRA 15:11)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR.

(Ionospheric research) (Electromagnetic waves)

VSEKHSVYATSKAYA, I.S.

Statistical properties of the sinusoidal signal and Poisson noises envelopes. Geomag. i aer. 2 no.4:712-719 J1-Ag '62. (MIRA 15:10)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR.

(Noise)

10.6150

S/203/62/002/001/009/019
I023/I223

AUTHOR: Vsekhsvyatskaya, I.S.

TITLE: Calculation of phase correlation coefficient in random processes

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 86-90

TEXT: On the basis of the four-dimensional probability density an integral expression is obtained for the phase correlation function of random processes in the presence of a specular reflected wave and a spectrum of chaotic waves. The four-fold integral obtained can be reduced to a one-fold integral. For the two special cases: $E_c^2/2\sigma^2 \rightarrow \infty$ and $E_c^2/2\sigma^2 \rightarrow 0$, simple expressions

for $\overline{\cos \alpha \cos \beta}$ and $\rho_{\cos \alpha}(\tau) = \frac{\overline{\cos \alpha \cos \beta} - \overline{\cos \alpha}^2}{\overline{\cos^2 \alpha} - \overline{\cos \alpha}^2}$ are found. A

method which makes possible the calculation of every even correlation and cross-correlation characteristic of the envelope

Card 1/2

S/203/62/002/001/009/019
I023/I223

Calculation of phase correlation...

amplitude and phase of a random process, is described.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i
rasprostraneniya radiovoln Akademii nauk SSSR
(Institute of Terrestrial Magnetism, Ionosphere
and Radiowave Propagation, Academy of Sciences
USSR)

SUBMITTED: December 5, 1961

Card 2/2

VSEKHSVIATSKAYA, Ye.I.; VSEKHSVIATSKIY, S.K.

Bright fireball above Kiev. Astron.tsir. no.226:13 0 '61.
(MIRA 16:1)

1. Kafedra astronomii Kiyevskogo universiteta.
(Meteors)

BAYBACHENKO, I.V.; MIZERNYUK, A.T.; VSEKHSVIATSKAYA, Yu.S.; SHKURDODA, V.F.

Radar observations of meteoric activity in January-March 1958.
Bul. Kon. po komet i meteor. AN SSSR no.3:15-18 '58 (MIRA 13:3)

1. Kiyevskiy gosudarstvennyy institut.
(Meteors)

VSEKHOVYATSY, V.

Astronomical Observatory, Odessa, U.S.S.R.

Commission pour l'Etude Physique des Cometes.

SO: Transactions of International Astronomical Union, 1950, Unclassified

VSEKHSVYATSKIY, S. [Vsekhsviats'kiy, S.], doktor fiz.-mat.nauk, prof.

In the Arctic regions. Nauka i zhyttia 9 no.10:51-54
0 '59. (MIRA 13:2)

(Arctic regions)

VSEKHSVYATSKIY, S. [Vsekhsviats'kiy, S.], doktor fiz.-matem.nauk, prof.

Stars draw closer. Nauka i zhyttia 12 no.4:25-26 Ap '62.
(MIRA 15:8)

(Astronomy)

VSEKHSVYATSKIY, S.K.

Possibility of the existence of a ring of comets and meteorites
around Jupiter. Astron.zhur. 39 no.2:290-302 Mar-Apr '62.
(MIRA 15:3)

1. Kafedra astronomii Kiyevskogo gosudarstvennogo universiteta.
(Jupiter (Planet)) (Comets) (Meteorites)

BERENSHTEYN, F.Ya.; KOPELOVICH, A.G.; VHUBLEVSKIY, S.V.

Effect of nicotinic acid on the hyperglycemic activity of some
trace elements. Dokl. AN BSSR 3 no.2:74-76 P '59.

(MIRA 12:5)

1. Predstavleno akademikom AN BSSR V.A. Leonovym.
(NICOTINIC ACID--PHYSIOLOGICAL EFFECT)
(TRACE ELEMENTS--PHYSIOLOGICAL EFFECT)
(HYPERGLYCEMIA)

VSEKHSVYATSKIY, S. K.

"A century of the main astronomical observatory USSR," Astren. Zhur., 16, No. 6, 1939.

Report U-1518, 23 Oct 1951

VSEKHSVYATSKIY, S. K.

Kiev Astronomical Observatory (-1945-)

"On 'local' and 'world' magnetic perturbations,"

Iz. Ak. Nauk SSSR, Geograf. i Geofiz., No. 5-6, 1945

VSOKHSVYATSKIY, S.K.

Addendum to the catalog of absolute magnitudes of comets. Part III.
Comets 1880-1900; some characteristics of the distribution of
absolute magnitudes of comets. Publ.Kiev.astron.obser.no.2:3-21
'48.

(MLRA 7:2)
(Comets)

VSEKHSVYATSKIY, S.K.

Observations of Nova Aquilae 1945. Publ.Kiev.astron.obser.no.2:
91-93 '48. (MLRA 7:2)
(Stars, New)

VSEKHSVYATSKIY, S. K.

Vsekhsvyatskiy, S. K. - "Investigation of the general brilliancy and positions of comets at the Kiev astronomical observatory", Publikatsii Kiyevsk. astron. observatorii (Kiyevsk. gos. un-t im. Shevchenko), No. 2, 1948, p. 95-99.

SO: U- 3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

VSEKHSVYATSKIY, S.K.

Kiev Observatory expedition for observation of the solar eclipse
of July 9, 1945. Publ.Kiev.astron.obser.no.2:101-104 '48.

(MLRA 7:2)

(Astronomy—Observations) (Eclipses, Solar--1945)

VSEKHSVYATSKIY, S. K.

Mbr., Kiev Astronomical Observatory, -cl948-.

"Brightness of 1880-1900 Comets and Certain Peculiarities in the Distribution of the Comets' Absolute Magnitudes," Astron. Zhur., 25, No. 6, 1948.

BR-52085091

ACCESSION NR: AP4032146

8/0254/64/000/004/0049/0052

AUTHOR: ^ (Candidate of physico-mathematical sciences, Professor
Vsekhavyats'ky'y, S.

TITLE: What has been learned about the sun and the solar system

SOURCE: Nauka i zhyt'tya, no. 4, 1964, 49-52

TOPIC TAGS: solar system, planet, space flight

ABSTRACT: This non-technical article describes the development of knowledge of the solar system during the past 400 years and the resulting changes in ideas about its origin. A table of distances and periods of rotation and revolution is given, and it is shown how the relative positions and speeds of the planets are taken into consideration in planning flights of space vessels. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: none

Card 1/8

BEYTRISHVILI, I.R.; VSEKHSVYATSKIY, S.K.

Photographic stellar magnitudes of Ikeya's comet (1963a).
Astron.tsir. no.268:3-4 N '63. (MIRA 17;4)

1. Kafedra astronomii Kiyevskogo gosudarstvennogo universiteta.

PA 63/49T2

VSEKHSVYATSKIY, S. K. Prof

USSR/Astronomy
Comets

May 49

"Origin of Comets," Prof S. K. Vsekhvatskiy, 6 pp

"Banka 1 Zhizn" No 5

During last 150 years, work of Russian and Soviet astronomers was of decisive importance in determining nature of comets. Discusses importance of determining comets' movement to deduce their origin. Most plausible theory is that comets are part of our solar system. Analyzes characteristics and paths of several comets. Stresses general ideological significance of studying the origin of comets.

63/49T2

USSR/Astronomy

(Contd)

May 49

(on a broader scale, of planets and the earth) as a factor in developing a thorough dialectical-materialistic outlook.

63/49T2

VSEKHSVYATSKIY, S.K.

Solar wind and solar corpuscular streams. Geomag. i aer. 4
no.2:328-332 Mr-Apr '64. (MIRA 17:4)

1. Kiyevskiy gosudarstvennyy universitet.

VSEKHSVYATSKIY, S. K.

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PA156T10

USSR/Astronomy - Comets
Photometry

Jan/Feb 50

"The Short-Periodic Comet Wolf I and Its Genesis," S. K. Vsekhsvyatskiy, Kiev Astr, 16 pp

"Astron Zhur" Vol XXVII, No 1

Discusses photometry of comets and Bobrovnikov's methods, absolute magnitude of Wolf I between 1885 and 1945, brightness of Wolf I in various phenomena, astronomical table of observations on Wolf I, disruption of periodic comets and their peculiarities of motion, and possible sources of comets in the solar system. Submitted May 49.

156T10

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USSR/Astronomy - Computing Instruments Jan 51

"Astronomy in the Service of Humanity," S. K.
Vsekhsviatsky

"Nauka i Zhizn'" No 1, pp 19-21

Short historical review. Computational work of
Leningrad Inst of Theoretical Astr using machines
is described as completely independent of foreign
contributions. Solar observatories are established
in Pulkovo and Kiev.

222T35

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USSR/Astronomy - Comets

Jan/Feb 52

"Periodic Comets and Their Origin," S. K. Vshekhsvyatskiy, Astron Obs, Kiev State U

"Astron Zhur" Vol XXIX, No 1, pp 63-75

Discusses work by J. H. Oort (cf Bull Netherlands, Vol XI, No 408, 1950) on perturbation of comet orbits by near stars and by planets. Considers comets as originating from some explosions on planets or from complete disintegration of some planet. Suggests that not only Jupiter, but also other planets are sources of comets. Received 30 Mar 52.

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(MLBA 6:6)

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[Solar eclipses and observations on the solar eclipse of June 30, 1954] Solnechnye zatmeniya i ikh nabludeniya; k solnechnomu zatmeniyu 30 iyunia 1954 g. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1954. 223 p. (MLRA 7:10)

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(MIRA 13:3)

(Comets)

VSEKHSVYATSKIY, S. K.

AID P - 378

Subject : USSR/Astronomy

Card 1/2 Pub. 8 - 8/12

Author : Vsekhsvyatskiy, S. K.

Title : ~~On the Change of Brightness of the Comet Encke-Baklund~~
On the Change of Brightness of the Comet Encke-Baklund

Periodical : Astron. zhur., v. 31, 3, 281-293, My-Je 1954

Abstract : A general review of photometric values made by Golechek for the appearances of the Encke-Baklund comet before 1918 is presented. Average curves of brightness of the comet are constructed for its appearances before the perihelion (1820, 1872 and 1908 epochs) and after the perihelion (1838, 1878, 1908 epochs). Parameters of the average curves are found, which show not only the systematic decrease in the comet's brightness, but also the possible increase in course of time of the mean exponent of the power in the formula of the change in brightness: $I = I_0 / r^k \Delta^2$. The existence of a considerable deviation of the brightness curve of the comet from the gradual law is confirmed. The question of the

Astron. zhur., v. 31, 3, 281-293, My-Je 1954

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Card 2/2 Pub. 8 - 8/12

possible effect of the phase angle showed after study that this effect could not be ascertained for Encke-Baklund's comet. Observation data for its latest appearances are collected and the mean brightness curve for the epoch 1935 constructed. The absolute secular change in size of the comet is brought out. Parameters of the formula $H_{\Delta} = H_0 + z/(r^n - 1)$ are computed. The formula coincides with B. Levin's formula based on the act of desorption of the solid rock masses in the comet nucleus into gas. A table is given of the absolute sizes of the comet in its numerous appearances. 9 tables and two graphs illustrate the text. 6 Russian references (after 1943) of a total of 17 Russian and non-Russian.

Institution : Department of Astronomy of Kiev State University

Submitted : January 24, 1953

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(Comets) (Oort, Jan Hendrik)

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Observations of the lunar eclipse of January 18/19, 1954. Astron. tsir.
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by the expedition of the Astronomy Department of Kiev University,
Astron. tsir. no. 151:3-5 JI '54. (MLRA 8:3)

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(Eclipses, Solar—1954)

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~~TUMAKINA, N.A., tekhnicheskii redakter.~~

[How we learned about the universe] Kak poznavalas' vselennaya. Izd.
2-oe, perer. Moskva, Gos.izd-vo tekhnike-teoret. lit-ry, 1955. 46 p.
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(Astronomy--History)

SOV/124-57-5-5264

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 22 (USSR)

AUTHORS: Baum. F. A., Vsekhsvyats'kiy, S. K., Stanyukovich, K. P.

TITLE: On the Explosive Processes of Powerful Volcanic Eruptions (O vzryvnykh protsessakh pri moshchnykh vulkanicheskikh izverzheniyakh) in Ukrainian

PERIODICAL: Nauk. zap. Kiyvs'k. un-t, 1955, Vol 13, Nr 7, pp 123-130

ABSTRACT: The paper analyzes the question of the sources of energy of the gigantic explosive processes observed on numerous occasions during extremely powerful volcanic eruptions (Vesuvius, Fujiyama, "Sangay", "Papandayang", Osamayama, Tamboro, "Gunung-Gelungung", "Kazegvina", Krakatau). It is shown that under conditions which exist at extreme depths of the earth there are accumulated tremendous quantities of H_2 , CO, CH_4 , etc. At elevated pressures and temperatures these are explosive mixtures high in energy and readily detonated. Various reactions are analyzed and an evaluation of the energy released is made. The total amount of the energy of the explosion is calculated which is required to eject solid rocks of several scores of cubic kilometers in size (Krakatau, August 27,

Card 1/2

On the Explosive Processes of Powerful Volcanic Eruptions

~~SOV~~124-57-5-5264

1883). It is also shown that the velocities attained by some individual rocks may exceed 8 km/sec.

From the résumé

Card 2/2

VSEKHSVYATSKIY, S. K.

6

GP ✓ Corpuscular emission from the sun S. K. Vsekhsvyat-
skiy, G. M. Nikol'skiy, G. A. Ponomarev, and Y. I. Cheren-
chenko (State Univ., Kiev) *Astro Zhur* 12, 165-78
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earth is 10^4 /cc. Cyrus Feldman

RF

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Structure of the solar corona of June 30, 1954. Astron.zhur.32
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and problems of the solar system. Astron.zhur.32 no.5:432-438 S-0
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(COMETS--1955)

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Kiyev.

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Kiyev.

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Publ. Kiev. astron. obser. no.7:31-44 '56.

(Comet, Encke's)

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